

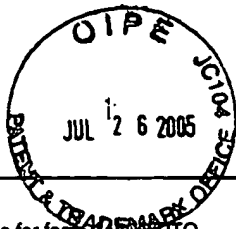
PTO/SB/08B (Modified)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete If Known</b>		
		Application Number	09/501,622	
		Filing Date	02/09/2000	
		First Named Inventor	Mills	
		Group Art Unit	1745	
		Examiner Name	Kalafut	
Sheet	1	12	Attorney Docket Number	8ac4-D2

## OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS

Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
OK	58	R. L. Mills, "Classical Quantum Mechanics," Physics Essays, Vol. 16, No. 4, December, (2003), pp. 433-498. (Web Publication Date: May 23, 2002.)	
OK	60	R. L. Mills, J. Sankar, A. Voigt, J. He, B. Dhandapani, "Synthesis of HDLC Films from Solid Carbon," Journal of Materials Science, in press. (Web Publication Date: May 3, 2002.)	
OK	77	J. Phillips, R. L. Mills, X. Chen, "Water Bath Calorimetric Study of Excess Heat in 'Resonance Transfer' Plasmas," J. Appl. Phys., Vol. 96, No. 6, (2004) 3095-3102. (Web Publication Date: June 16, 2003.)	
OK	80	R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen Atom According to Quantum Mechanics," Annales de la Fondation Louis de Broglie, submitted. (Web Publication Date: Jan. 27, 2003.)	
OK	81	R. Mills, P. Ray, B. Dhandapani, W. Good, P. Jansson, M. Nansteel, J. He, A. Voigt, "Spectroscopic and NMR Identification of Novel Hydride Ions in Fractional Quantum Energy States Formed by an Exothermic Reaction of Atomic Hydrogen with Certain Catalysts," European Physical Journal: Applied Physics, 28, (2004), 83-104. (Web Publication Date: Feb. 21, 2003.)	
OK	88	R. Mills, J. Sankar, A. Voigt, J. He, P. Ray, B. Dhandapani, "Role of Atomic Hydrogen Density and Energy in Low Power CVD Synthesis of Diamond Films," Thin Solid Films, 478, (2005) 77-90. (Web Publication Date: Dec. 22, 2003.)	
OK	94	R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwellian Approach," Physics Essays, in press. (Web Publication Date: Aug. 6, 2003.)	
OK	96	J J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," Spectrochimica Acta Part B: Atomic Spectroscopy, submitted. (Web Publication Date: Sept. 12, 2003.)	
OK	97	R. L. Mills, P. Ray, B. Dhandapani, "Evidence of an Energy Transfer Reaction Between Atomic Hydrogen and Argon II or Helium II as the Source of Excessively Hot H Atoms in RF Plasmas," Journal of Plasma Physics, in press. (Web Publication Date: Sept. 26, 2003.)	
OK	98	R. L. Mills, Y. Lu, J. He, M. Nansteel, P. Ray, X. Chen, A. Voigt, B. Dhandapani, "Spectral Identification of New States of Hydrogen," New Journal of Chemistry, submitted. (Web Publication Date: Nov. 18, 2003.)	

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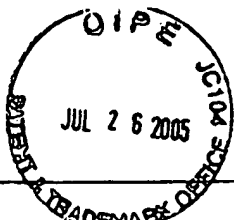
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OK	100	R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, submitted. (Web Publication Date: Nov. 17, 2003.)	
OK	101	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Chemistry of Solid, Liquid, and Gaseous Fuels, 227th American Chemical Society National Meeting, March 28-April 1, 2004, Anaheim, CA.	
OK	102	R. L. Mills, "Exact Classical Quantum Mechanical Solutions for One- through Twenty-Electron Atoms," Phys. Essays, submitted. (Web Publication Date: April 22, 2004.)	
OK	103	R. L. Mills, Dhandapani, W. Good, J. He, "New States of Hydrogen Isolated from K <sub>2</sub> CO <sub>3</sub> Electrolysis Gases," Electrochim. Acta, submitted. (Web Publication Date: April 28, 2004.)	
OK	104	R. L. Mills, Y. Lu, M. Nansteel, J. He, A. Voigt, W. Good, B. Dhandapani, "Energetic Catalyst-Hydrogen Plasma Reaction as a Potential New Energy Source," Division of Fuel Chemistry, Session: Advances in Hydrogen Energy, 228th American Chemical Society National Meeting, August 22-26, 2004, Philadelphia, PA.	
OK	113	R. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States", New Journal of Physics, submitted.	
OK	114	R. Mills, K. Akhtar, B. Dhandapani, "Tests of Features of Field-Acceleration Models for the Extraordinary Selective H Balmer $\alpha$ Broadening in Certain Hydrogen Mixed Plasmas," Journal of Applied Physics, submitted. (web publication June 24, 2005, www.blacklightpower.com).	

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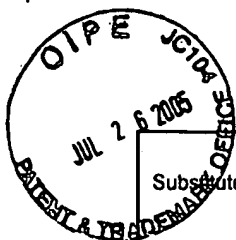
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OK	105	J. Phillips, C. K. Chen, R. L. Mills, "Evidence of Catalytic Production of Hot Hydrogen in RF-Generated Hydrogen/Argon Plasmas," J. Appl. Physics, submitted. (Web Publication Date: September 7, 2004.)	
OK	106	R. L. Mills, "Exact Classical Quantum Mechanical Solution for Atomic Helium which Predicts Conjugate Parameters from a Unique Solution for the First Time," Foundations of Science, submitted. (Web Publication Date: October 28, 2004.)	
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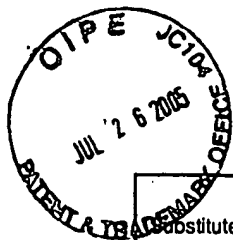
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OK		CRITCHLEY <i>et al.</i> , "Energy shifts and forbidden transitions in H <sub>2</sub> due to electronic g/u symmetry breaking", <i>Molecular Physics</i> , 2003, Vol. 101, Nos. 4-5, pp. 651-661, Taylor & Francis Ltd. (no citation)	
OK		GAMBUS <i>et al.</i> , "Spectroscopic Study of Low-Pressure Water Plasmas and Their Reactions with Liquid Hydrocarbons", <i>Energy &amp; Fuels</i> , 2002, 16, pp. 172-176, American Chemical Society (no citation)	
OK		CVETANOVIC <i>et al.</i> , "Excessive Balmer line broadening in a plane cathode abnormal glow discharge in hydrogen", <i>Journal of Applied Physics</i> , 97, 033302 (2005), American Institute of Physics (no citation)	
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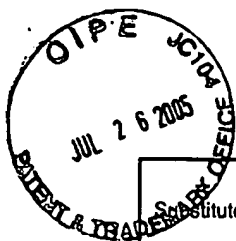
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OK		COTTON <i>et al.</i> , "Complexes of Cyclic 2-Oxacarbenes. I. A Spontaneous Cyclization to Form a Complex of 2-Oxacyclopentylidene", <i>Journal of the American Chemical Society</i> , 93:11, pp. 2672-2676, June 2, 1971	
OK		LINDSAY <i>et al.</i> , "A remeasurement of the 2.4 $\mu$ m spectrum of J = H <sub>2</sub> pairs in a parahydrogen crystal", <i>Journal of Molecular Spectroscopy</i> , 218. Pp. 131-133, 2003 (NO MONTH)	
OK		JUAREZ <i>et al.</i> , "Photoelectron angular distributions of rotationally resolved states in para-H <sub>2</sub> <sup>+</sup> : A closer to the dynamics of molecular photoionisation", The University of Manchester Atomic, Molecular & Laser Manipulation Group, pp.1-5 (NO DATE)	
OK		WEISSTEIN, "Ortho-Para Hydrogen", <a href="http://scienceworld.wolfram.com/physics/Ortho-ParaHydrogen.html">http://scienceworld.wolfram.com/physics/Ortho-ParaHydrogen.html</a> (NO DATE)	
OK		SMITH, "Infrared spectra of BO <sub>2</sub> - in the alkali halides-L. Potassium and rubidium halides", <i>Spectrochimica Acta</i> , Vol. 30A, pp. 875-882, Pergamon Press, 1974 (NO MONTH)	
OK		LEITCH <i>et al.</i> , "Raman Spectroscopy of Hydrogen Molecules in Crystalline Silicon", <i>Physical Review Letters</i> , 81:2, pp. 421-424, July 13, 1998, The American Physical Society	
OK		CHEN <i>et al.</i> , "Key to Understanding Interstitial H <sub>2</sub> in Si", <i>Physical Review Letters</i> , 88:10, pp. 105507-1 - 105507-4, March 11, 2002, The American Physical Society	
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OK		LAVROV <i>et al.</i> , "Ortho and Para Interstitial H <sub>2</sub> in Silicon", <i>Physical Review Letters</i> , 89:21, pp. 215501-1 - 215501-4, November 18, 2002, The American Physical Society	
OK		STAVOLA <i>et al.</i> , "Interstitial H <sub>2</sub> in Si: are all problems solved?", <i>Physica B</i> , pp. 58-66, 2003-Elsevier B.V. (2003, NO MONTH)	

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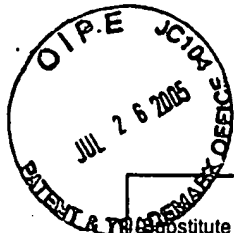
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OK		MILLS <i>et al.</i> , "Catalysis of Atomic Hydrogen to Novel Hydrides as a New Power Source", pp. 1-8, BlackLight Power, Inc. (No Date)	
OK		DECIUS <i>et al.</i> , "Force Constants of the Metaborate Ion in Alkali Halides", <i>The Journal of Chemical Physics</i> , 56:10, pp. 5189-5190, May 15, 1972	
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OK		SMITH, "Infrared spectra of BO <sub>2</sub> -in the alkali halides-I. Potassium and rubidium halides", <i>Spectrochimica Acta</i> , 30A, pp. 875-882, 1974, Pergamon Press (No Date)	
OK		SCHOENFELDER <i>et al.</i> , "Kinetics of Thermal Decomposition of TiH <sub>2</sub> ", <i>J. Vac. Sci. Technol.</i> , 10:5, pp. 862-870, Sept./Oct. 1973	
OK		"Emission Characteristics for Scandium Type Dispenser Cathodes", HeatWave Labs, Inc., TB-119, May 24, 2001, Spectra-Mat, Inc.	
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OK		"Practical Aspects of Modern Dispenser Cathodes", <i>Microwave Journal</i> , September, 1979	

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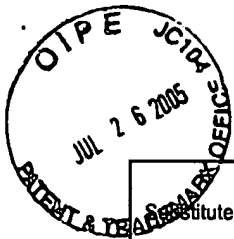
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OK		"Standard Series Barium Tungsten Dispenser Cathodes", HeatWave Labs, Inc., TB-198, July 29, 2002, Spectra-Mat, Inc.		
OK		ABATE <i>et al.</i> , "Optimization and enhancement of H <sup>+</sup> ions in a magnetized sheet plasma", <i>Review of Scientific Instruments</i> , 71:10, pp. 3689-3695, October 2000, American Institute of Physics		
OK		CHABERT <i>et al.</i> , "On the influence of the gas velocity on dissociation degree and gas temperature in a flowing microwave hydrogen discharge", <i>Journal of Applied Physics</i> , 84:1, pp. 161-167, July 1, 1998, American Institute of Physics		
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OK		DJUROVIC <i>et al.</i> , "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge", <i>J. Appl. Phys.</i> , 74:11, pp. 6558-6565, December 1, 1993, American Institute of Physics		
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OK		JOVICEVIC <i>et al.</i> , "Excessive Balmer line broadcasting in microwave-induced discharges", <i>Journal of Applied Physics</i> , 95:1, pp. 24-29, January 1, 2004, American Institute of Physics	
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OK		KURAICA <i>et al.</i> , "Line shapes of atomic hydrogen in a plane-cathode abnormal glow discharge", <i>Physical Review A</i> , 46:7, pp. 4429-4432, October 1, 1992, The American Physical Society	
OK		KURAICA <i>et al.</i> , "On the Atomic Hydrogen Line Shapes in a Plane-Cathode Obstructed Glow Discharge", <i>Physica Scripta.</i> , 50, pp. 487-492, 1994 (No Auth)	

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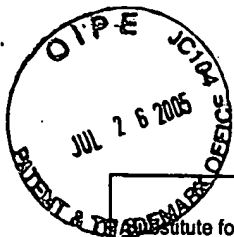
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>			
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		First Named Inventor	Mills		
		Group Art Unit	1745		
Examiner Name	Kalafut				
Sheet	9	of	14	Attorney Docket Number	8ac4-D2

OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS			
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OK		OLTHOFF <i>et al.</i> , "Studies of Ion Kinetic-Energy Distributions in the Gaseous Electronics Conference RF Reference Cell", <i>Journal of Research of the National Institute of Standards and Technology</i> , 100:4, pp. 383-400, July-August 1995	
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OK		DJUROVIC <i>et al.</i> , "Hydrogen Balmer alpha line shapes for hydrogen-argon mixtures in a low-pressure rf discharge", <i>J. Appl. Phys.</i> , 74:11, pp. 6558-6565, December 1, 1993, American institute of Physics	
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OK		ARATA <i>et al.</i> , "Reproducible 'Cold' Fusion Reaction Using a Complex Cathode", <i>Fusion Technology</i> , 22, pp. 287-295, September 1992	
OK		BURKHOLDER <i>et al.</i> , "Reactions of boron atoms with molecular oxygen. Infrared spectra of BO, BO <sub>2</sub> , B <sub>2</sub> O <sub>2</sub> , B <sub>2</sub> O <sub>3</sub> , and BO <sub>2</sub> in solid argon", <i>J. Chem. Phys.</i> , 95:12, pp. 8697-8709, December 15, 1991	
OK		SPURGIN, "Direct Conversion of the Random Thermal Energy of a Plasma Into Electrical Energy", Master's Thesis, The University of South Florida, June 1972	

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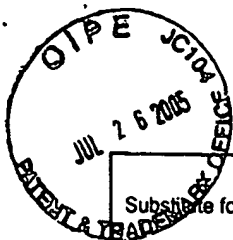
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		Group Art Unit	1745		
Examiner Name	Kalafut				
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OK		D. Luggenholcher, U. Czarnetzki, and H.F. Dobe Institut fur Laser-und Plasmaphysik, Universitat Essen, Germany, "Investigations on Electric Field Distributions in a Microwave Discharge in Hydrogen" (No PATE)	
		Technology Insights, "Hydro Catalysts Technical Assessment," (Part of 09/009,837 paper no.: 20050207 This document was submitted by R. Mills on 7/17/02 in copending application 09/669,877). NOT FOUND	
OK		Evans Analytical Group, <a href="http://www.cea.com/inst.htm#esca2">http://www.cea.com/inst.htm#esca2</a> , "Time-of-Flight Secondary Ion Mass Spectrometry (TOF-SIMS)" (No PATE)	
OK		J M Luque, M D Calzada and M Saez, "Experimental research into the influence of ion dynamics when measuring the electron density from the Stark broadening of the H $\alpha$ and H $\beta$ lines." (2003, No PATE)	
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OK		John R. Shook, "A Pragmatically Realistic Philosophy of Science", < <a href="http://www.pragmatism.org/shook/pragmatic_and_Realistic.htm">http://www.pragmatism.org/shook/pragmatic_and_Realistic.htm</a> > (No PATE)	
OK		Raoul Nakhmanson, "The Ghostly Solution of the Quantum Paradoxes and it's Experimental Verification", from "Frontiers of Fundamental Physics", Bartone & Selleri, Plenum Press, NY 1994, < <a href="http://arxiv.org/ftp/physics/papers/0103/0103006.pdf/">http://arxiv.org/ftp/physics/papers/0103/0103006.pdf/</a> > (No PATE)	
		Donald A. McQuarrie, "Quantum Chemistry", University Science Books, CA, 1983, relevant parts of Chapters 4, 6, and 8. NOT FOUND	

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

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**Complete if Known**

Application Number	09/501,622
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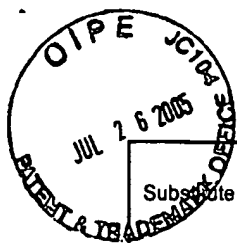
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OK		E. Kovacevic, I. Stefanovic, J. Berndt, and J. Winter, "The Dynamic Response of the Plasma on the Dust Formation in Ar/C <sup>2</sup> H <sup>2</sup> Rf Discharges." < <a href="http://www.rcpig.uni-greifswald.de/proceedings/data/kovacevic-1">http://www.rcpig.uni-greifswald.de/proceedings/data/kovacevic-1</a> > (No DATE)	
OK		N. Cveticanovic, m.M. Kuratca, N. Konjevic, "Excessive Balmer Line Broadening in a Plane Cathode Abnormal Glow Discharge in Hydrogen", J Appl. Phys. 97, 033302 (2005)	
OK		E. U. Condon, Ph. D., G. H. Shortley, Ph. D., "The Theory of Atomic Spectra," Cambridge, 1967, pp.45-69, and 112-147. (No MONTH)	
OK		Ben Best, "The Copenhagen Interpretation of Quantum Mechanics", < <a href="http://www.benbest.com/science/quantum.html">http://www.benbest.com/science/quantum.html</a> > (No DATE)	
OK		Aaron J. Barth, "Bigger Than Fire?", SKEPTIC Vol. 8, No. 4, 2001. (No MONTH)	
OK		Notes on David Peat, "Einstein's Moon: Bell's Theorem and the Curious Quest for Quantum Reality," History and Philosophy of Science-Fall, 1997-Dr. Ess, < <a href="http://www.drury.edu/ess/philsoci/bell.html">www.drury.edu/ess/philsoci/bell.html</a> > (No MONTH)	
OK		Physics 200-04 Course, "Pauli Spin Matrices", < <a href="http://axion.physics.ubc.ca/200-04/paulispin.pdf">http://axion.physics.ubc.ca/200-04/paulispin.pdf</a> >. (No DATE)	
OK		"The Linear Stark Effect", University of Texas Lecture, < <a href="http://farside.ph.utexas.edu/teaching/qm/perturbation/node8.html">http://farside.ph.utexas.edu/teaching/qm/perturbation/node8.html</a> > (No DATE)	
OK		K.L. Ross, "Kantian Quantum Mechanics", < <a href="http://www.fresian.com/space-2.htm">http://www.fresian.com/space-2.htm</a> > (No DATE)	

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OK		Quantum Physics 301, Paradoxes and Interpretation". < <a href="http://www.teach.phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf">http://www.teach.phy.bris.ac.uk/Level30100/CourseMaterials/paradoxes.pdf</a> >	(No Date)
OK		The Internet Encyclopedia of Philosophy, "Logical Positivism", < <a href="http://iep.utm.edu/logpos.htm">http://iep.utm.edu/logpos.htm</a> >	(No Date)
		H. G. Kuhn, F. R. S., "Atomic Spectra", Longmans, Green & Co., Ltd., London/Harlow 1969 (2 <sup>nd</sup> ed.).	NOT FOUND
OK		Anthony J. Marchese, Ph. D., Peter Jansson, Ph. D., P.E., John I. Schmalzel, Ph. D., P.E., "The Blacklight Rocket Engine", NIAC Phase 1 Final Report (May 1-November 30, 2002). <a href="http://www.niac.usra.edu/files/studies/final_report/">www.niac.usra.edu/files/studies/final_report/</a>	
OK		"Average Molecular Kinetic Energy", < <a href="http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.html">http://hyperphysics.phy-astr.gsu.edu/hbase/kinetic/molke.html</a> >	(No Date)
OK		"Attempt to Observe Excess Heat in a Ni-H <sub>2</sub> O-K <sub>2</sub> CO <sub>3</sub> Electrolysis System-9OCT97", <a href="http://www.earthtech.org/experiments/Mills/mills1.html">www.earthtech.org/experiments/Mills/mills1.html</a> .	(10/1997)
OK		Eric Krieg, "Hydrinos: A State Below the Ground State" <a href="http://www.freeenergies.org/bl/bwt/z/hydrino/hydrino.htm">http://www.freeenergies.org/bl/bwt/z/hydrino/hydrino.htm</a>	(No Date)
OK		Peter D. Zimmerman, "An Analysis of Theoretical Flaws in So-Called Classical Quantum Mechanics and of Experimental Evidence Against CQM" (2001)	(No Date)
OK		Rathke "A Critical Analysis of the Hydrino Model", New Journal of Physics, 19 May 2005, <a href="http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html">http://www.iop.org/ej/article/1367-2630/7/1/127/njp5_1_127.html</a>	
OK		Mills, R., "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Form Excited and Predicted Hydrino States," (web publication June 9, 2004 at <a href="http://www.blacklightpower.com">www.blacklightpower.com</a> )	

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OK	74	R. L. Mills, P. C. Ray, R. M. Mayo, M. Nansteel, B. Dhandapani, J. Phillips, "Spectroscopic Study of Unique Line Broadening and Inversion in Low Pressure Microwave Generated Water Plasmas," Journal of Plasma Physics, Vol. 1, Part 6, (2005), 877-888. (Web Publication Date: June 18, 2003.)		
Duplicate cite	80	R. L. Mills, "The Fallacy of Feynman's Argument on the Stability of the Hydrogen According to Quantum Mechanics," Annales de la Fondation Louis de Broglie, Vol. 30, N (2005), pp. 129-151. (Web Publication Date: Jan 27, 2003.)		
Duplicate cite	94	R. L. Mills, "The Nature of the Chemical Bond Revisited and an Alternative Maxwell Approach," Physics Essays, Vol. 17, (2004), 342-389. (Web Publication Date: Aug. 6, 2004.)		
Duplicate cite	96	J. Phillips, C.K. Chen, R. L. Mills, "Evidence of the Production of Hot Hydrogen Atoms in RF Plasmas by Catalytic Reactions Between Hydrogen and Oxygen Species," J. Plasma Phys., submitted. (Web Publication Date: Sept. 12, 2003.)		
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DUPLICATE CITE	100	R. Mills, B. Dhandapani, J. He, "Highly Stable Amorphous Silicon Hydride from a Helium Plasma Reaction," Materials Chemistry and Physics, 94/2-3, 298-307. (Web Publication Date: Nov. 17, 2003.)	
DUPLICATE CITE	110	R. L. Mills, J. He, Z. Chang, W. Good, Y. Lu, B. Dhandapani "Catalysis of Atomic Hydrogen Novel Hydrides as a New Power Source," Prepr. Pap. - Am. Chem. Soc., Div. Fuel C 2005, 50(2). (Web Publication Date: April 22, 2005.)	
DUPLICATE CITE	113	R.L. Mills, "Physical Solutions of the Nature of the Atom, Photon, and Their Interactions to Excited and Predicted Hydrino States," New Journal of Physics, submitted. (Web Publication Date: June 9, 2005.)	

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